

IFR ENROUTE HIGH ALTITUDE - U.S.

For use at and above 18,000' MSL HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983

Civil— Associated City Airport Name (AFT) Airport Identifier NAVAIDS NAME OOO.0 IDT 000 (Y) OOR with TACAN compatible DME Underline indicates No Voice transmitted on this frequency. TACAN Chonnels are without voice but not underlined. NAME OOO.0 IDT 000 (N) NAME OOO.0 IDT (I) OO NAVAID which in len NAVAID site or receive distance information Automated Weather Broadcast Systems: Shutdown status Chiefly Frequency TaCAN Chonnels are without voice but not underlined. NAME OOO.0 IDT (I) OO NAVAID which was that weather Broadcast Systems: Shutdown status (Y) TACAN charmeted Surface Observing Station, Automated Weather Broadcast Systems: ASSOS/AWOS - Automated Surface Observing Station, Automated Weather Broadcast Inflight Weather Advisory Service TWEB - Transcribed Weather Broadcast Automated weather, when available, is broadcast on the associated NAVAID frequency. NAME On-Request NAME On-Request	HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983										
Associated City names for military and published and least in the High Altitude Dob Puls. Focalities in BROWN of Name and published procedure and/or RADAR MINIMA published and either the FAA Terminal Procedure Publications or the Dob Pull's. Those in BIUCh an Instrument Approach Procedure and/or RADAR MINIMA published all tests in the High Altitude Dob Pull's. Focalities in BROWN of Name and published Instrument Approach Procedure or RADAR MINIMA published at least in the High Altitude Dob Pull's. Focalities in BROWN associated City Airport Name (APT) associated City names for military and private me the same only the airport name and city name are the same only the airport name and city name on the same only the airport name. If airport name and city name on the same only the airport internation. If airport name and city name on the same only the airport name. If airport name and city name on the same only the airport name. If airport name and city name on the same only the airport and private in the High Altitude Dob Pull's. Focalities in BROWN associated City Airport Name (APT) associated City names for military and private are the same only the airport name. If airport name and city name on the same only the airport name. If airport name and city name on the same only the airport and private in the High Altitude Dob Pull's name. If airport name and city name on the same only the airport name and city name on the same only the airport and the same only the airport and the same only the airport and the same only the airport name and city name on the same only the airport name. If airport name and city name on the same only the airport and the same only the airport and the same only the airport name. If airport name and city name on the same only the airport name and city name on the same only the airport on th			D								
an Instrument Approach Procedure and/or RADAR MINIMA published of least in the High Althude Dob PLPs. Facilities in BROWN Associated City Common Stormality City Associated City Associated City Associated City Common Stormality City Associated City Associated City Common Stormality City Associated City Associated City Common Stormality City Associated City Common Stormality Common Stormality City Common Stormality C											
AVAIDS NAVAIDS NAME OOO.0 IDT 000 (Y) VOR with TACAN compatible DME Underline indicates No Voice transmitted on this frequency. TACAN Channels are without voice but not underlined. Crosshartch indicates Shutdown status VOR VOR/DME TACAN VORTAC IF/MF Non-directional Radiobeacon or Marine Radiobeacon or Ma	an Instrument Approach Procedure and/or F	RADAR MINIMA published at least in the Hig	h Altitude DoD FLIPs. Facilities in BROWN do Associated city names for public airports								
Military NAVAIDS AND COMMUNICATION BOXES NAVAIDS NAME OOO.0 IDT 000 (Y) VOR with TACAN compatible DME Underline indicates No Voice transmitted on this frequency. TACAN Channels are withhout voice but not underlined. Crosshatch indicates Shutdown status NAME OOO.0 IDT (I) OO NOO*00.00* NAME OOO.0 IDT (I) O	T T T	CITY —	are shown above or preceding the airpor name. If airport name and city name are the same only the airport name is shown.								
NAVAIDS AND COMMUNICATION BOXES NAVAIDS NAVAIDS NAVAIDS VHF/UHF Data is depicted in BLACK IF/MF Data is depicted in BROWN COMPASS ROSES Oriented to Mognetic North of NAVAID which may not be adjusted to the charted isogonic values. VOR VOR/DME TACAN VORTAC IF/MF Non-directional Radiobeacon or Marine R	T T T	(APT)	City names for military and private airpo								
VHF/UHF Data is depicted in BLACK LF/MF Data is depicted in BROWN COMPASS ROSES Oriented to Magnetic North of NAVAID which may not be adjusted to the charted isogonic values. VOR VOR/DME TACAN VORTAC LEF/MF Non-directional Radiobeacon or Marine Radiobeacon or Marine Radiobeacon O/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or O/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or O/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or O/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or O/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or O/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or O/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or O/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or O/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or O/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or O/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or O/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or O/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or O/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or O/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or O/DME Frequency FSS Name and NAVAID bus indicates NAVAID or are not shown above the book of the communication of		J VAIDS AND COMMUNICATION:									
VHF/UHF Data is depicted in BIACK (IF/MF Data is depicted in BROWN) COMPASS ROSES Oriented to Magnetic North of NAVAID which may not be adjusted to the charted isogonic values. VOR VOR/DME TACAN VORTAC IF/MF Non-directional Radiobeacan or Marine Radiobeacan O/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or DIT (SS) and sasociated with a charted NAVAID or airport NAME OOO.0 IDT OOO NAME OOO.0 IDT OOO NAME OOO.0 IDT OOO NAME OOO.0 IDT OOO NAME OOO.0 IDT OOO NAME OOO.0 IDT OOO NAME OOO.0 IDT OOO NAME OOO.0 IDT OOO NAME OOO.0 IDT OOO NAME OOO.0 IDT OOO NAME OOO.0 IDT OOO NAME OOO.0 IDT OOO NAME OOO.0 IDT OOO NAME OOO.0 IDT OOO NAME OOO.0 IDT OOO NAME OOO.0 IDT OOO NAME OOO.0 IDT OOO NAME OOO.0 IDT OOO NAME OOO.0 IDT (I) OO NAM											
COMPASS ROSES Oriented to Magnetic North of NAVAID which may not be charted isogonic values. Crosshatch indicates Shutdown status Shutdown status Crosshatch indicates Shutdown status Crosshatch indicates Shutdown status It //MF Non-directional Radiobeacon or Marine Radiobeacon Radiobeacon Radiobeacon Radiobeacon Radiobeacon Radiobe	VHF/UHF Data is depicted in BLACK		000.0								
Oriented to Magnetic North of RAVAID which may not be adjusted to the charted isogonic values. Crosshatch indicates No Voice transmitted on this frequency. TACAN Channels are without voice but not underlined. Crosshatch indicates Shutdown status Mame Freq(s) positioned above thin line NAV. box is remoted to the NAVAID site On 0.0 IDT (L) 00 NAME On 0.0 IDT (L) 00 NAME IDT FSS Name and identifier not associated with a charted NAVAID frequency. If MAME IDT FSS Name and identifier not associated frequency is an are an are evaluable, is broadcast on the associated NAVAID frequency. If MAME IDT FSS Name and identifier not associated frequency is an are an are evaluable, is broadcast on the associated NAVAID frequency. If MAME IDT FSS Name and identifier not associated frequency is an are an are evaluable, is broadcast on the associated NAVAID frequency. If MAME IDT FSS Name and identifier not associated frequency is an are not shown. All high altitude didentifier and are not shown. All high altitude didentifier and are not shown. All high altitude didentifier and are not shown above the bo in Canada a shadow box indicates shown above the bo in Canada a shadow box indicates shown above the bo in Canada a shadow box indicates shown above the bo in Canada a shadow box indicates shown above the bor in the canada a shadow box indicates shown above the bor in the canada and provided frequency. If MAME IDT FSS Freq(s) passociated MAME NAME IDT FSS Freq(s) passociated MAME IDT FSS Fre	•	(000.0 IDT 000 (Y))	(000.0 IDT 000)								
Magnetic North of NAVAID which of NAVAID without voice but not underlined. Underline indicates No Voice transmitted on this frequency. TACAN Channels are without voice but not underlined. Crosshatch indicates Shutdown status Crosshatch indicates Shutdown status Crosshatch indicates Shutdown status Crosshatch indicates Shutdown status IF/MF Non-directional Radiobeacon or Marine Radiobeacon/DME IE/MF Non-directional Radiobeacon/DME Fight Service Station (FSS), Remote Communications Ourlet (RCO) or Automated weather Advisory Service IVMB - Transcribed Weather Broadcast Systems: Automated weather weather, when available, is broadcast on the associated NAVAID frequency. IF/MF Radio Aid identification and frequency. IF/MF Radio Aid identification and frequency. IF/MF Rodio Aid identific		VOR with TACAN compatible DMF									
on this frequency. TACAN Channels are without voice but not underlined. Crosshatch indicates Shutdown status If MF Non-directional Radiobeacon or Marine Radiobe	Magnetic North	1	W000°00.00'								
without voice but not underlined. Crosshatch indicates Shutdown status Crosshatch indicates Shutdown status (Y) TACAN must be placed in "Y" mode to receive distance information Automated Weather Broadcast Systems: ASOS/AWOS - Automated Surface Observing Station/Automated Weather Observing Station Automated Weather Observing Station (FSS) have same name IF/MF Non-directional Radiobeacon or Marine Radiobeacon/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or Automated Weather, when available, is broadcast on the associated NAVAID frequency. IF/MF Radio Aid identification and frequency IF/MF Radio Aid identification and frequency IF/MF Radio Aid identification and frequency IF/MF Ron-directional Radiobeacon/DME Part-Time or On-Request NAVAID or airport NAME OOU IDT 00(000.0) IF/MF Non-directional Radiobeacon/DME IF/MF Non-directional Radiobeacon/DME Part-Time or On-Request NAVAID or airport NAME OOU IDT 00(000.0) IF/MF Non-directional Radiobeacon/DME IF/MF Radio Aid identification and frequency IF/MF Radio Aid identificatio		on this frequency. TACAN Channels are	Name								
VOR VOR/DME TACAN VORTAC LF/MF Non-directional Radiobeacon or Marine Radiobeacon/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or On-Request Automated weather Advisory Service TWEB - Transcribed Weather Observing Station (AWOS/ASOS) not associated with a charted NAVAID or airport NAME OOO.0 IDT (L) OO NO0*00.00* NAME OOO.0 IDT (L) OO N00*00.00* NAME IDT FSS Name and identifier not associated with NAVAID box indicates NAVA and Flight Service Station (FSS) have same name FSS Name and identifier not associated with NAVAID FSS Freq(s) 122.2, 255.4 and emergent 121.5, 243.0 are available at many FS and are not shown. All high altitude discrete freq(s) are shown above the box indicates the condition of the condit of the condition of the condition of the condition of the condi	adjusted to the	without voice but not underlined.	Freq(s) positioned above thin line NAVA								
Shutdown status VOR VOR/DME TACAN VORTAC Shutdown status	cnarrea isogonic values.	Crosshatch indicates	pox is remoted to the NAVAID site								
to receive distance information Automated Weather Broadcast Systems: LF/MF Non-directional Radiobeacon or Marine Radiobeacon/DME LF/MF Non-directional Radiobeacon or Marine Radiobeacon/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or Automated Weather, when available, is broadcast on the associated NAVAID frequency. Italy MF Non-directional Radiobeacon/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or Automated Weather Observing Station (AWOS/ASOS) not associated with a charted NAVAID or airport NAME OOU IDT NAME IF/MF Non-direction and frequency IF/MF Non-direction and remoted frequency(s) are shown all high altitude discrete freq(s) are shown above the bo In Canada a shadow box indicates standard group freq 243.0, 126.7 and 121.5. (I) Frequency Protection usable range of 18,000 AGL - 40NNM (I) Frequency Protection usable range of 18,000 AGL - 40NNM (I) Frequency Protection usable range of 12,000 AGL - 25NNM "I" and "T" category NAVAIDS located Jet Routes are depicted in screen black. NAVAIDS without classification are "H"			000.0 000.0								
VOR VOR/DME TACAN VORTAC Automated Weather Broadcast Systems: Automated Weather Broadcast Systems: W000000.00											
LF/MF Non-directional Radiobeacon or Marine Radiobeacon/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or Automated Weather Observing Station (AWOS/ASOS) not associated with a charted NAVAID or airport ASOS/AWOS - Automated Surface Observing Station (FSS) have same name NAME IDT FSS Name and identifier not associated with NAVAID frequency. FSS freq(s) 122.2, 255.4 and emergency and are not shown. All high altitude discrete freq(s) are shown above the bo In Canada a shadow box indicates NAVAID (I) Frequency Protection usable range of 18,000' AGI - 40NIM The Part-Time or On-Request with TACAN Channel NAME O00.0 LF/MF Non-directional Radiobeacon/DME VHF Freq paired with TACAN Channel The Name ond identification of identification and identifier not associated NAVAID or and remove the solution of the associated NAVAID identifier not associated NAVAID and identifier not associated NAVAID or and remove the name of the communication of the state of the communication of the communication of the communication and identifier not associated NAVAID or and remove the name of the communication of the communic			N00°00.00'								
LF/MF Non-directional Radiobeacon or Marine Radiobeacon/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or Automated Weather Observing Station (AWOS/ASOS) not associated with a charted NAVAID or airport LF/MF Non-directional Radiobeacon/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or Automated Weather Observing Station (AWOS/ASOS) not associated with a charted NAVAID or airport LF/MF Radio Aid identification and frequency Part-Time or On-Request NAME NAME On-Request NAME NAME On-Request NAME On-Request NAME On-Request NAME N	VOR VOR/DME TACAN VORTAC	Automated Weather Broadcast Systems:	Shadow NAVAID box indicates NAVAI and Flight Service Station (FSS) have								
LF/MF Non-directional Radiobeacon or Marine Radiobeacon or Marine Radiobeacon or Marine Radiobeacon or Marine Radiobeacon LF/MF Non-directional Radiobeacon/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or O Automated Weather Observing Station (AWOS/ASOS) not associated with a charted NAVAID or airport NAME Part-Time or On-Request NAME NA		Observing Station/Automated									
LF/MF Non-directional Radiobeacon/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or Automated Weather Observing Station (AWOS/ASOS) not associated with a charted NAVAID or airport NAME Part-Time or On-Request NAME	Radiobeacon or Marine	HIWAS - Hazardous Inflight	NAME IDT identifier not associate								
LF/MF Non-directional Radiobeacon/DME Flight Service Station (FSS), Remote Communications Outlet (RCO) or Automated Weather Observing Station (AWOS/ASOS) not associated with a charted NAVAID or airport Automated Weather Observing Station (AWOS/ASOS) not associated with a charted NAVAID or airport Automated weather, when available, is broadcast on the associated NAVAID LF/MF Radio Aid identification and frequency NAME On-Request NAME On-Re	/		with NAVAID								
Communications Outlet (RCO) or Advanted Weather Observing Station (AWOS/ASOS) not associated with a charted NAVAID or airport Part-Time or On-Request NAME OOD IDT 00(000.0) LF/MF Non-directional Radiobeacon/DME VHF Freq paired with TACAN Channel Tequency Protection usable range of 18,000' AGL - 40NM (T) Frequency Protection usable range of 12,000' AGL - 25NM "I" and "T" category NAVAIDS located Jet Rouse are depicted in screen black. NAVAIDS without classification are "It"		broadcast on the associated NAVAID	Outlet (RCO), FSS rad								
Communications Outlet (RCO) or Advanted Weather Observing Station (AWOS/ASOS) not associated with a charted NAVAID or airport Part-Time or On-Request NAME OOD IDT 00(000.0) LF/MF Non-directional Radiobeacon/DME VHF Freq paired with TACAN Channel Tequency Protection usable range of 18,000' AGL - 40NM (T) Frequency Protection usable range of 12,000' AGL - 25NM "I" and "T" category NAVAIDS located Jet Rouse are depicted in screen black. NAVAIDS without classification are "It"	•										
Charted NAVAID or airport Part-Time or On-Request NAME On-Request NOO IDT 00(000.0) LF/MF Non-directional Radiobeacon/DME VHF Freq paired with TACAN Channel (I) Frequency Protection usable range of 18,000' AGL - 40NM (I) Frequency Protection usable range of 12,000' AGL - 25NM "I" and "T" category NAVAIDS located Jet Rouse are depicted in screen black. NAVAIDS without classification are "It"	Communications Outlet (RCO) or Automated Weather Observing Station	identification and	121.5, 243.0 are available at many FSS and are not shown. All high altitude								
hamber of On-Request NAME On-Request NON IF/MF Non-directional Radiobeacon/DME VHF Freq paired with TACAN Channel (I) Frequency Protection usable range of 18,000° AGL - 40NM (I) Frequency Protection usable range of 18,000° AGL - 25NM "L" and "T" category NAVAIDS located Jet Routes are depicted in screen black. NAVAIDS without classification are "H"											
LF/MF Non-directional Radiobeacon/DME VHF Freq paired with TACAN Channel 18,000' AGL - 40NM (T) Frequency Protection usable range of 12,000' AGL - 25NM "I" and "T" category NAVAIDS located Jet Routes are depicted in screen black. NAVAIDS without classification are "I"	energed is returne of disposit	On-Request NAME	standard group freq 243.0, 126.7 and 121.5								
12,000' ÅGL - 25NM "I" and "T" category NAVAIDS located Jet Routes are depicted in screen black. NAVAIDS without classification are "H"			(T) Frequency Protection usable range at								
NAVAIDS without classification are "H"		The state of the s	12,000' ÅGL - 25NM "L" and "T" category NAVAIDS located of Jet Routes are depicted in screen black.								
category.			NAVAIDS without classification are "H"								

Z		DATA 00 Changeover Point		BOUNDARIES			
	VHF/UHF Data is depicted in BL LF/MF Data is depicted in BROV RNAV Data is depicted in BLUE	ACK VN	-		Giving mileage to NAVAID (Not shown when less than 5NM from the midpoint in either direction)		Air Route Traffic (Center (ARTCC)
	JOOO Jet Route	e			Ainimum Enroute Altitud		Air Defense Ident Zone (ADIZ)
	ROO ROO ATS ROU	ute			own when other than 18,000	***********	Adjoining ADIZ
	A00 A00 Oceanid	c Route			Max. Authorized A l titude own when other than 45,000		Flight Information Region (FIR)
	ARO Atlantic	Route			MEA for GNSS RNAV	. ———	Adjoining FIR
	BROL BROL Bahama	a Route			MEA for DME/DME/IR		Upper Information
	Via/bypassing temporarily shutdown NA				own when other than 18,000		Region (UIR)
	See NOTAMs or appropriate publications specific information.	s for	⊣ -	→ ME	A and/or MAA Change other than NAVAIDS		Combined FIR an
	////// Unusable Route S	Segment	/ / / /	_	nimum Reception Altitude		Control Area (CT Upper Control Ar
	- Q00 - RNAV Route		100	(MI			International Bour
	(Not including Q routes in the Gulf of Me. GNSS or DME/DME/IRU RNAV required otherwise indicated. Radar monitoring re	l, unless	AT/		nimum Crossing A l titude CA)		with ARTCC or FIR)
	DME/DME/IRU RNAV aircraft refer to			FIX	(ES/ATC		Official Time Zon
Airport	Airport/ racilly Directory for DMC Inform	rt/Facility Directory for DME information.	REPORTING RÉQUIREMENTS		AIRSPACE INFORMATIC		
	Preferred Direction Route/G	n Jet 🌷	A △	Fix Com Non-Co	pulsory and mpulsory Position Repor	Open area contro ll ed	a (white) indicates airspace. (Class A)
	000.0 IDT 000 Facility Loc		* \$	RNAV V Non-Co	Vaypoint Compulsory ar mpulsory Position Repor		ea (brown) indicate ed airspace. (Class
	used in for of Reportin		♦	NRS (N	avigation Reference		ass A Airspace
	O00 - Radial Outbou		, ·		Waypoint	and design	ace of the United St nated offshore airsp 00' MSL to and inc
	Boaring Inhour		←		tes DME Fix nce same as route mi l eage)	FL 600 exc of Latitude	cluding the portion 25°04'00"N
	an LF/MF NA\	VAID	₹ 00) Deno	tes DME Fix and Mileag		
	Total Mileage bei	s	\triangle_{\blacksquare}	Offset a	rrows indicate facility a Fix. (Away from	IDENT	Service ex
	and/or NÁVAID			VHF/UHF, 1	F, Toward LF/MF NAVAID)		Additiona Area limit
	Mileage between	other		Mileage	Breakdown or Compute	SPECIA	L USE AIRSPAC

ALL ALTITUDES ARE MSL UNILESS OTHERWISE STATED
ALL TIME IS COORDINATED UNIVERSAL TIME (UTC), DAYS ARE LOCAL
North American Datum of 1983 (NAD 83), for charting purposes, is considered
equivalent to World Geodetic System 1984 (WGS 84).

† During periods of Daylight Saving Time (DT), effective hours will be one hour
earlier than shown. All states observe DT except Arizona.

CRUISING ALTITUDES - U.S.

IFR within controlled airspace as assigned by ATC

All courses are magnetic

VFR or VFR On Top add 500′ No VFR or VFR On Top authorized above FL285 in RVSM airspace